and a diol having a molecular weight of from about 60 to about 750; or

(b) a diol having a molecular weight of from about 1,000 to about 4,000

wherein, when the active hydrogen containing material does not include a molecular weight of from about 60 to about 750, the prepolymer is dispersed in water which includes a difunctional amine chain extender.

4. The polyurethane film according to Claim 3 wherein the diol having a molecular weight of from about 1,000 to about 4,000 is a polyoxypropylene diol having an ethylene oxide capping of from 0 to 25 percent.

10. The process according to Claim 9, wherein

the diisocyanate is either:

(a) an aliphatic diisocyanate; or

(b) an aromatic diisocyanate selected from the group consisting of MDI, TDI, and mixtures thereof; and

the active hydrogen containing material is either:

(a) a mixture of a diol having a molecular weight of from about 1,000 to about 4,000 and a diol having a molecular weight of from about 60 to about 750; or

(b) a diol having a molecular weight of from about 1,000 to about 4,000

wherein, when the active hydrogen containing material does not include a diol having a molecular weight of from about 60 to about 750, the prepolymer is dispersed in water which includes a difunctional amine chain extender.

15. The dispersion of Claim 13, wherein the mixture of diols is a mixture of a diol having a molecular weight of from about 1,000 to about 4,000 and a diol having a molecular weight of from about 60 to about 750.